

Application No. 10/826,061
Response to Office Action

Customer No. 01933

Amendments to the Specification:

Please amend the paragraph at page 3, lines 16-18 as follows:

image storing means for storing image data picked up by
the imaging means in association with contact data as a
creation or ~~edition~~ editing target.

Please amend the paragraph at page 9, line 20 to page 10,
line 17 as follows:

FIGS. 1A and 1B are external views (a front view and a rear view showing an opened state) of a mobile phone terminal 100, and FIGS. 1C and 1D are views showing display layouts of a main display panel. The mobile phone terminal 100 in this embodiment has a folded structure constituted of a cover and a main body. A speaker 1 is used to output a voice of a call partner in an audio communication. A main display panel 2 is provided to the cover, and constituted of a color liquid crystal display. When the terminal is used as a mobile phone terminal, the main display panel 2 displays various kinds of communication information. On the other hand, when the terminal is used as a digital camera, the main display panel 2 displays a finder or ~~edition~~ editing contents of picked-up image data. An antenna 3 is provided on a rear surface of the main body, and is extendable. An operation portion 4 is provided on a front surface of the main body, and constituted of various kinds of function keys (a camera key 41, an address book key 42, a cruciform key 43, and a determination key 44), ten keys 45, a clear key 46 and others. ~~Although as~~ As will be described later, a camera function (an imaging unit 71 and an image processing unit 18) is activated when the camera key 41 is operated.

Please amend the paragraph at page 11, line 11 to page 12, line 25 as follows:

FIG. 1C shows a display layout of the main display panel 2 when the imaging unit 71 is activated. In the first embodiment, an image having ~~an~~ a layout as shown in FIG. 1C is displayed when a camera mode is activated (including an activation of the camera mode from an address book mode). Reference numeral 201 denotes an icon showing a current communication environment state, and it constantly searches a peripheral communication environment even in the camera mode and shows a result of search in the number of bars. Reference numeral 202 designates an icon showing a residual capacity of a battery, and 203 denotes a current time. Furthermore, reference numeral 204 designates an arrow icon used to clearly show zoom-up, and this icon controls the electronic zoom of the imaging unit 71 in an enlarging direction in response to an operation of the cruciform key 43 in the upward direction by a user and reflects a result in a monitor display area 206. Reference numeral 205 denotes an arrow icon used to clearly show ~~zoom-up~~ zoom-out, and this icon controls the electronic zoom of the imaging unit 71 in a reducing (wide) direction in response to an

operation of the cruciform key 43 in the downward direction by a user and reflects a result in the monitor display area 206. The monitor display area 206 is controlled by a driver 21 to display an image picked up by the imaging unit 71 with a resolution according to an image pickup mode in real time, and displays an image with a corresponding resolution in an image ~~edition~~ editing operation after storing an image. Reference numeral 207 denotes a function display area, and this area urges an operation of the camera key 41 in the operation portion 4 when a user executes a function specified in the function display area 207. Reference numeral 208 designates a function display area, and this area urges an operation of the determination key 44 in the operation portion 4 when a user executes a function specified in the function display area 208. Reference numeral 209 denotes a function display area, and this area urges an operation of the address book key 42 in the operation portion 4 when a user executes a function specified in the function display area 209.

Please amend the paragraph at page 16, line 21 to page 17,
line 3 as follows:

An operation of the first embodiment will now be described with reference to a flowchart of FIG. 5. When the CPU 12 detects an address book mode activation command by detecting an operation of the address book key 42 in an incoming call waiting state at step S1, the CPU 12 activates the address book ~~viewing/creation/edition~~ viewing/creating/editing program from the ROM 16 and displays ~~such~~ an address book data new creation screen as shown in FIG. 6A or an existing data edition screen in the main display panel 2 at step S2.

Please amend the paragraph at page 17, lines 4-11 as follows:

When "001 Rei Tanaka's address data" in this address book data ~~edition~~ editing screen is highlighted and selected as an ~~edition~~ editing target, ~~such~~ a sub menu as shown in FIG. 6B is displayed in the main display panel 2 by detecting an operation of the address book key 42 by a user. It is determined at step S3 whether or not the camera is activated ("activation of the camera" is selected or the camera key 41 is pressed).

Please amend the paragraph at page 18, lines 3-19 as follows:

Then, when a user instructs an association/storing of this determined image with/in 001 Rei Tanaka's address book area by operating the determination key 44, the CPU 12 sets the image display link "1" in 001 Rei Tanaka's address data area in the address book data storage area 172 shown in FIG. 7, stores a record number 001 of the image memory 10 storing the image data in the link information storage area 173 shown in FIG. 8 in association with 001 of the address book data storage area 172, reduces the image based on this image data in size while temporarily lowering the resolution in accordance with the display layout of FIG. 2C and displays a result in the ~~edition~~ editing screen in the main display panel 2 as shown in FIG. 6G at step S8. The CPU 1 returns to the processing of step S3 until it is determined that the ~~edition~~ editing processing in the address book mode is terminated at step S13.

Please amend the paragraph at page 19, line 21 to page 20,
line 3 as follows:

Specifically, the CPU 12 sets the image display link flag "1" in 001 Rei Tanaka's address data area in the address book shown in FIG. 7, stores a plurality of record numbers of the image memory 10 storing the plurality of stored continuously taken pictures of the image at 001 in the data storage area of the address book in the link information storage area 173 shown in FIG. 8, and displays an image based on the first image data in the ~~edition~~ editing screen of the main display panel 2 as shown in FIG. 9D.

Please amend the paragraph at page 20, lines 11-22 as follows:

According to the first embodiment, when associating the image data with the address book data and storing it, the picked-up image can be obtained by activating the camera during ~~edition~~ editing of the address book data, and this picked-up image can be associated/stored with/in the address book during ~~edition~~ editing, thereby improving the usability of the address book. Further, the pickup mode can be set to the continuous pickup setting during the address book data ~~edition~~ editing, and a plurality of continuously picked-up images can be directly collectively stored in the address book, thus simplifying the storing operation.

Please amend the paragraph at page 20, line 23 to page 21,
line 13 as follows:

It is to be noted that such an image as shown in FIG. 9G can be continuously picked up by the manual operation when manual is selected in the continuous pickup speed setting shown in FIG. 9F. Furthermore, like the regular camera activation, a special effect can be selected from the menu immediately after image pickup (which can be also performed during image pickup) in order to apply effects such as monotone, sepia, stamp application or the like to picked-up images. Moreover, desired image processing can be applied on the spot before holding the link in the address book, and such a processed image as shown in FIG. 10A can be immediately associated with the address book data which is currently in the ~~edition~~ editing operation and it can be stored by the same operation as that described above. Such a synthesized image as shown in FIG. 10B can be associated/stored with/in the address book.

Please amend the paragraph at page 21, lines 14-24 as follows:

Additionally, like the regular camera activation, synthesis image pickup is possible during the image pickup operation. First picture can be taken, a second picture can be taken so as to be aligned with the first picture, and then they are synthesized and determined as one picked-up image as shown in FIG. 11A. ~~, and it~~ It can be immediately associated with the address book data which is currently in the ~~edition~~ editing operation and then stored by the same operation as that described above. Such a synthesized image as shown in FIG. 11B can be displayed in the address book.

Please amend the paragraph at page 25, line 24 to page 26, line 7 as follows:

~~Edition~~ Editing of image data in an address book data viewing operation of the mobile phone terminal 100 will now be described with reference to a flowchart shown in FIG. 19. In ~~edition~~ editing of image data in the viewing operation, a person image portion is extracted from image data which has been already associated with and stored in address book data or the like, this portion is synthesized with a selected background in order to create desired image data, and a

result is again associated with and stored in the address book data.

Please amend the paragraph at page 26, lines 8-16 as follows:

First, when a user activates an address book data ~~viewing/creation/edition~~ viewing/creating/editing mode, the CPU 12 activates an address book data ~~viewing/creation/edition~~ viewing/creating/editing program at step S31, and displays it in the main display panel 2 as shown in FIG. 20A. When a user operates the operation portion 4 from this display screen, selects address book image ~~edition~~ editing and further selects person portion extraction processing, the CPU 12 judges these operations and performs the following processing.

Please amend the paragraph at page 26, lines 17-24 as follows:

That is, in response to these operations, the CPU 12 determines whether these operations correspond to the address book image ~~edition~~ editing at step S32. Then, if they do not correspond to the address book image ~~edition~~ editing, the processing advances to another ~~edition~~ editing processing at step S37. If they correspond to the address book image ~~edition~~ editing, the processing proceeds to step S33.

Please amend the paragraph at page 30, line 25 to page 31, line 8 as follows:

An operation of the fourth embodiment will now be described with reference to a flowchart of FIG. 22. A CPU 12 reads and activates an address book data ~~viewing/creation/edition~~ viewing/creating/editing program from an ROM 16 and displays a result in a main display panel 2 as shown in FIG. 23A at step S41. Then, at step S42, the CPU 12 determines whether an operation is the image ~~edition~~ editing. Moreover, if it is not the image ~~edition~~ editing, the processing advances to another ~~edition~~ editing processing at step S48. If it is the image ~~edition~~ editing, the processing proceeds to step S43.

Please amend the paragraph at page 33, lines 13-18 as follows:

Therefore, it is easy to, e.g., retrieve images showing the same person as that in an image stored in the address book and store a favorite one among these images in the address book in place of the already stored image, thereby improving the efficiency of the address book image ~~edition~~ editing.

Please amend the paragraph at page 34, lines 2-19 as follows:

FIG. 24 shows a table illustrating a difference in selectable pickup size in the regular camera mode stored in the ROM 16 and a camera mode from an address book. In the drawing, shaded portions show pickup sizes (or functions) which cannot be selected when the camera mode is activated from the address book. That is because image storage in the address book is possible up to a wallpaper size (desktop size), and hence image ~~edition~~ editing such as resizing or trimming is required when a picture is taken with any larger size. The image ~~edition~~ editing can be manually or automatically performed, but it is desirable to take a picture with a pickup size which can be stored without performing image ~~edition~~ editing in order to readily realize such ~~edition~~ editing with existing hardware or reduce the operation burden on a user. Therefore, image pickup with sizes exceeding pickup sizes enabling image storage in the address book is restricted.

Please amend the paragraph at page 38, line 20 to page 39, line 15 as follows:

On the other hand, when the determination key 44 is pressed and a picked-up image is determined, image data of this displayed image is subjected to compression encrypting processing in the image processing unit 18 and encrypted data is stored in the image memory 19 at step S62. Then, at step S63, the determined image stored in the image memory 19 is associated with the address book. For example, when a command to associate the determined image with an area in 001 Rei Tanaka's address book is issued by operating the determination key 44 by a user, the CPU 12 sets a link "1" for image display in 001 Rei Tanaka's address data area in the address book data storage area 172 shown in FIG. 7. Further, the CPU 12 stores the record number 001 of the image memory 10 storing the image data in the link information storage area 173 shown in FIG. 8 in accordance with 001 in the address book data storage area 172, and displays an image based on this image data in the ~~edition~~ editing screen in the main display panel 2 as shown in FIG. 6G. The CPU 12 returns to step S52 and continues the processing until it determines that the ~~edition~~ editing processing in the address book mode is terminated at step S64.

Please amend the paragraph at page 39, line 27 to page 40, line 16 as follows:

A sixth embodiment according to the present invention will now be described. In the sixth embodiment, all the pickup sizes (the regular display size items (120 × 160 dots) to UXGA (1600 × 1200 dots) of the mobile phone) are set selectable in the sub menu even if the camera mode is activated from the address book edition so as not to provide a user interface which gives a feeling of strangeness to a user when activating the camera mode from the address book ~~edition~~ editing. That is, even an image size which cannot be associated with the address book is not displayed in gray. Moreover, when a VGA size or a larger size is selected, only a thumbnail image (120 × 160 dots) generated based on the DCF standard (complying with the Exif standard) from a picked-up image is linked with the address book and reference can be made to original image data only when referring to a data folder.

Please amend the paragraph at page 45, lines 7-10 as follows:

Further, in any case, the CPU 12 returns to step S72 and continues processing until it determines that the ~~edition~~ editing processing in the address book mode is terminated at step S88.

Please amend the paragraph at page 45, lines 11-25 as follows:

Here, a description will be given as to the association (link) of the thumbnail image with the address book. As a first link method to associate the thumbnail image with the address book, a thumbnail image created based on the DCF standard is copied, and that copy is formed as another file and linked with a record which is currently edited in the address book. In this case, there is an advantage that the image file is not affected even if decorative processing or the like is performed during the address book ~~edition~~ editing. Furthermore, when applying another decorative processing and storing a result, copying a thumbnail image in the already stored image file can suffice, thereby advantageously saving trouble to perform image pickup twice.

And please amend the paragraph at page 46, lines 8-15 as follows:

According to the sixth embodiment, in the mobile phone with a camera of mega pixels, image data having an image size (thumbnail image) which can be associated with the address book can be automatically associated without giving a feeling of strangeness to a user when the camera mode is activated from the address book ~~edition~~ editing even if an arbitrary pickup size is selected and image pickup is effected.